

Zhur Eksper i Teoret Fiz, Vol XXVII, 1954,
pp 387, 388, 2 pp abstract

CIA C 37820

AF 664607

Zhur Eksper i Teoret Fiz, Vol XXVII, 1954,
pp 389-390, 2 pp abstract

CIA C 37820

AF 664607

Solution of Simplified Fock Equations in Bicon-
Figurational Approximation for the Beryllium-Type
of Atoms, by A. P. Yutsis, V. V. Kibartas, et al, 8 pp.
RUSSIAN, per, Zhur Ekspier i Teoret Fiz, Vol XXVII,
1954, pp 425-430. 9224333
AEC-ANL-Tr-16

OTS ANL -Trans-16

Sci-Phys
Aug 64

262,924

Use of Molecular Beams for the Radio-
Spectroscopic Study of the Rotational Spectra
of Molecules, by N. G. Basov, A. M. Prokhorov,
13 pp.

RUSSIAN, bimo per, Zhur Ekaper i Teoret Fiz,
Vol XXVII, No 4(10), 1954, P 431-438, 9092578

AEC TRANS 2301

Morris D Friedman - B-105

\$4.00

Scientific - Physics

SLA 59-15045

CRS 69/Jun 55

24,739

Determination of the Absorption Coefficient
of Powdered Phosphors, by V. V. Antov-Roman-
ovskii.

RUSSIAN, per, Zhurnal Eksperimentalnoi i
Teoreticheskoi Fiziki, Vol 26, 1954,

pp 459-72.

ATB-86889R

Sci - Chem
Jul 67

331, 492

Violation of the Boguslavskiy-Langmuir Law Concerning
the Heating of a Tungsten Cathode of a Vacuum Tube
by a Pulsed Current of High Density, by S. V.
Lebedev, 46 pp.

RUSSIAN, per, ~~Zhur Eksp. i Teor. Fiz.~~ Vol XXVII,
No. (10), Oct 1954, pp 487-500.

SLA Tr R-1026

Sci - Electronics
Jan 58

58,185
SCL-T-257

Theory of X-Ray Absorption Spectra, by E. Ye. Vaynshteyn,
R. L. Barinakiy, et al, 11 pp,
RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXVII, No 4,
1954, pp 521-528.

JPRS 23510

Sci-Mat & Met
Mar 64

251,524

Some Questions of Relativistic Hydrodynamics, by
I. M. Khalatnikov, 12 pp.

~~RUSSIAN, per, Zhur Skriptl' i Teoret Fiz, 8 Vol XXVII,
1954, pp 529-541.~~

ABC Tr 2608

Sci - Physics
Nov 56 CTS

40,474

On the Electro-Acoustical Waves in a Gaseous
Discharge Plasma, by M. V. Konyukov, Ya. P.
Terletsky.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol
XXVII, No 5, (11), pp 542-548.

Coop Trans Scheme No 169
L2.16s. (7s.0d.)

Sci - Physics

May 1956

SCAR-2354

33.747 scimolid
57/493

AEC CEH-AR243

On Some Properties of a Weakly Non-Ideal Electron
Gas, by G. E. Zilberman, 11 pp.

RUSSIAN, per, Zhur Zhupl' i Teoret. Fiz., Vol XXVII,
1954, pp 549-555.

ABU Tr 2610

Sci - Electron, Physics
Nov 56 CTS

40, 475

The Dielectric Strength of Metal Titanates of
Group II of the D. I. Mendeleev Periodic Table
for Direct and Alternating ($f = 50$ CPS) Voltages,
by V. I. Sarafanov, 5 pp.

RUSSIAN, per, ~~Zhur EKHOTI~~ i ~~Teoret Fiz~~, Vol XXVII,
1954, pp XXXX 590-594.

ABC Tr 2611

Sci - Electric, Minerals/Metals *Physics*
Nov 56 GNS

40, 476

Dielectric Strength of Titanates of Metals in
Group II of the Periodic Table for High Frequency
Voltage, by G. I. Skanavi, V. I. Sarafanov, 11 pp.

RUSSIAN, per, Zhur Ekspitl' Teoret Fiz, Vol XXVII,
1954, pp 595-604.

ABC Tr 2612

Sci - Electricity
Nov 56 CTS

Physics

40,477

Lebedev, S. V.

PHENOMENA IN TUNGSTEN WIRES PRECEDING
THEIR DISINTEGRATION UNDER THE EFFECTS
OF HEAVY CURRENT [Yavleniye v Vol'framovykh
Provolokakh, Predshestvuyushchiye ikh Vzryvu pod
Deystviyem Sil'nogo Toka]. Sep 60, 19p. 5 refs.

Technical notes no. FRL-TN-7; AD-244 828.

Order from LC or SLA m\$2.40, ph\$3.30 60-27011

Trans. of Zhurnal Eksperimental'noy i Teoreticheskoy
Fiziki (USSR) 1954, v. 27, no. 5(11) p. 605-614.

Another translation is available from LC or SLA
m\$2.70, ph\$4.80 as SCL-T-239, 27 Mar 59, 21p.

(Physics--Theoretical, TT, v. 5, no. 2)

60-27011

I. Tungsten wire--Detonation

I. Lebedev, S. V.

II. FRL TN-7

III. Feltman Research Labs.,
Picatinny Arsenal,
Dover, N. J.

IV. Joint Publications Research
Service, New York

V. AD-244 828

AEC/SCL 6-239
33pp

Office of Technical Services

AEC (LA-tr-71-31) CHOICE OF CONDENSER IN STUDY
OF COMBINATION LIGHT SCATTERING. Rautian, S. G. 78
Translated by Helen J. Dahlby (Los Alamos Scientific Lab.,
N. Mex.), from Zh. Eksp. Teor. Fiz. 27: 625-35(1954). 17p.
Dep. NTIS.

NTC 11-15465-20F

physics; translations 20

MN-34 P NSA

Dew Points of Mixtures of Helium Isotopes,
by B. N. Ebel'mon, N. G. Bereznyak,
2 pp.

RUSSIAN, Zhur Eksptl i Teoret Fiz, XXVII,
1954, pp 648, 649.

SLA R1790
AEC Tr 2298

Assoc Tech Serv Tr 68G7R

Sci - Chemistry

Sci Mus Ind 57/3609

29,205

SIR/31275/CT

Anelastic Reflection of Electrons From the Surface
of Cuprous Oxide, by N. B. Gornyi, 6 pp.

RUSSIAN, bimo per, Zhur Eksper i Teoret Fiz,
Vol XXVII, 1954, p 649-654

Morris D. Friedman G-125
\$3.00

Scientific - Physics

OTS 67/Apr 55

22,943

On the Computation of Polarons by Direct
Variational Methods, by S. I. Pekar, 6 pp.

RUSSIAN, bino per, Zhur Kasper i Teoret Fis,
Vol XXVII, 1954, pp 671-675. CIA D 193572

Morris D. Friedman
\$3.00

P-100

Scientific - Physics

CTB 67/Apr 55

22,946

Binary Distribution Functions for a System of
Interacting Charged Particles, by I. R.
Yukhnovskiy, 12 pp.

RUSSIAN, per, Zhur Ekaper 1 Teoret Fiz, Vol XXVII,
1954, pp 690-698.

ABC UCRL-Trans-669(L)

Sci
Oct 61

171, 242

List 59

Spectral Theory of Gas-Magnetic Isotropic
Turbulence, by S. A. Kaplan.
RUSSIAN, per, Zh Eksp Teor Fiz, No 27, 1954,
pp 699-.
*AEC

Sci/Phy
Jun 69

The Effect of the Interaction of Ions on Their
Equilibrium Concentration in Multiple Thermally
Ionized Gases, by B. L. Timan.

RUSSIAN, per, Zhur Eksp Teor Fiz, Vol XXVII,
1954, pp 708-711. 9203659

UCRL Tr 674(L)

Sci - Chem

Mar 63

226,558

An Approximate Calculation of Oscillator
Strength and Effective Cross-Sections of
Photo-Ionization, by L. A. Vaynshteyn,
B. M. Yavorskiy, 7 pp.

RUSSIAN, bimo per, Zhur Eksper i Teoret Fiz,
Vol XXVII, No 6, 1954, pp 712-718.

Navy Tr 1276/NRL 542

Sci - Physics
Jan 56 CTS/DEX

30,696
BT-3363

Method for Investigating the Secondary Emission Upon
Bombardment of the Conductors With Ions, by U. A.
Arifov, A. Kh. ~~Kh~~ Ayukhanov, S. V. Starodubtseva,

RUSSIAN, Ser, Zhur ~~Eksp~~er 1 Teoret Fiz, No 6, 1954,
pp 714-722. 9093444

AEC Tr-5066

Sci - Phys
Jul 62

204, 750

On the Theory of Magnetic Properties of
Atomic Semi-Conductors. Part I, by L. L.
Korenblit, 9 pp.

RUSSIAN, bimo per, 2 bur Eksper i Teoret
Fiz SSSR, Vol XXVII, No 6(12), 1954,
pp 719-727.

Navy Tr 1283/HRL 544

Sci - Physics
Mar 56/CTS DEX

31,901

Shock Waves in a Relaxation Medium, by S. P.
D'yakov, 9 pp.

RUSSIAN, bimo per, Zhur Eksper i Teoret Fiz,
Vol XXVII, No 6, 1954, pp 728-734.

NACA N-41218

Scientific - Physics
Mar 56 CTS/dax

31,528

CT 5-28-56 (71)

On the Generation^{of} Millimeter Band Radiowaves When
a Bunch of Electrons Passes Through a Retarding
Medium, by G. A. Askaryan, 2 pp.

RUSSIAN, bimo per, Zhur Eksp^{er} i Teoret Fiz, Vol XXVII,
No 6(12), 1954, p 761.

34, 726 Morris D. Friedman

Scientific - Electronics; Physics

May 56 CTS/dex

Conductivity of Thin Metal Films, by
M. I. Kaganov, M. Ya. Azbel, 4 pp.
RUSSIAN, per, Zhur Eksper i Teoret Fiz,
Vol XXVII, 1954, pp 762, 763. 9228386
AEC-ANL-Tr-158

Sci
~~AMK~~
Apr 65

The Conductivity of Thin Metal Films, by
M. I. Kaganov, M. Ya. Azbel, 3 pp.

RUSSIAN, per, Zhur Eksper i Teor Fiz, Vol XXVII,
1954, p 762.

Sci Mus Lib No 56/2442

Sci - Min/metals

42, 843-
DSR/28147/CT

ZHURNAL EKSPERIMENTAL'NOY I
TEORETICHESKOY FIZIKI
(Soviet Physics - JETP - monthly)
Translation begins with 1955, Vol. 28
Lag time: ca. 6 months
Order from: American Institute of Physics
335 East 45th Street
New York, N.Y. 10017
1971: \$ 95.00/year USA and Canada
\$ 100.00/elsewhere
\$ 9.00 single current or back issues
USA and elsewhere
(Prepayment required - surface mail postage
is included)

Russ
ed

Mar/Apr 1955 - Full translation
publ in English of Zhur Eksper i
Teoret Fiz, Beginning in 1955 by
the American Institute of Physics

Vol I, No 2, - C - 40846

May/Jun - Full translation in English of
Zhur Eksper i Teoret i Fiz by Amer Inst of
Physics

Vol I, No 3 - C-40837

Table of Contents of "Journal of Experimental
and Theoretical Physics", 4 pp.

RUSSIAN, bimo per, Zhur Eksper i Teoret Fiz,
Vol XXVIII, No 1, 2, 3, 4, 5, 6, 1955.

CIA/FDD/X-1832

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 3-9, 2 pp abstract

CIA C 37820

AF 664607

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 10-12, 2 pp. abstract

CIA C 37820

AF 664607

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 13-16, 2 pp abstract

CIA C 37820

AF 664607

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 17-27, 2 pp abstract

CIA C 37820

AF 664607

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 49-60, 2 pp abstract

CIA C 37820

AF 664607

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 70-76, 2 pp abstract

CIA C 37820

AF 664607

Le Surt Physic - JETP (C40845)
Regression of Centers of the Patent
Photographic Image, 7 pp.
B. Q. Kazantsev, P. V. Mikhlyai
AF2 TR233/

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 111-113, 2 pp abstract

CIA C 37820

AF 664607

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 113-115, 2 pp abstract

CIA C 37820

AF 664607

Surface Tension of Liquid He^3 in the
Temperature Interval Between 0.93 and
3.34°K, by K. N. Zinov'eva, 2 pp.
per.

RUSSIAN, Zhur Eksptl i Teoret Fiz,
Vol XXVIII, 1955, pp 125.

AEC Tr 2300

Assoc Tech Serv
Tr 7107R

Sci - Chemistry

29,197

29,197 1/17/55 040945

Investigation of High Frequency Discharges by
the Probe Method, by Kh. A. Dzherpetov, G. M.
Pateyuk, 9 pp.

RUSSIAN, per, Zhur Eksp. i Teoret. Fiz.,
Vol XXVIII, 1955, pp 343-351.

AEC Tr-2616

Sci - Phys
May 61

150,354

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 151-159, 2 pp abstract

CIA C 37820

AF 664607

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 160-170, 2 pp abstract

CIA C 37820

AF 664607

Self Quenching Photon Counters, by S. F.
Rodinov, M. S. Khaikin, & A. I. Schalnikov, 11 pp.

RUSSIAN, no per, Zhur Eksper. i Teoret. Fiz,
Vol XXVIII, No 2, 1955, pp 223-227.

SLA R-1142

May 58

63880

Increasing the Q of a Cavity Resonator by Using
Regeneration, by N. G. Basov, V. G. Veselago,
M. E. Zhabotinskiy, 1 p.

RUSSIAN, bimo per, Zhur Eksper i Teoret Fiz,
Vol XXVIII, No 2, 1955, p 242.

Morris D. Friedman - B-106
\$1.00

38, 244

Sci - Physics

At Rec 11/1/55

CIA 6-8-55

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 244, 245, 2 pp abstract

CIA C 37820

AF 664607

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 246-248, 2 pp abstract

CIA C 37820

AF 664607

The Phenomenological Relationships of
Ossager, by K. Karanikolov, 5 pp.

RUSSIAN, per, Zhizn i Nauchn. i Teoret. Fiz.,
Vol XXVIII, 1955, pp 283-286.

SIA R-2137

Sci

Aug 58

72,844

On Spontaneous Fission of Thorium, by M. A. V.
Podgurskaya, V. F. Kalashnikova, G. A. Stolyarov,
E. D. Vorob'ev, G. N. Flerov, 6 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXVIII,
1955, pp 503-505. *no 4*

no A Sci Mus Lib Tr 55/2/23

A.E.R.E. Lib Tr 569

Sci - Chemistry

Physics

~~31,677~~
31,677

Bass, F. G. and Tsidi'l'kovskii, I. M.
ON THE THEORY OF THE HALL AND NERNST-
ETTINGHAUSEN EFFECTS IN MIXED-CONDUCTION
SEMICONDUCTORS. [1962] 21p. 5 refs.
Order from OTS or SLA \$2.60 62-14472

Trans. of #Zhurnal Eksperimental'noi i Teoreticheskoi
Fiziki (USSR) 1955, v. 28, no. 3, p. 312-320.

DESCRIPTORS: *Semiconductors, Hall effect,
Electrons, Magnetic fields, Impurities, Theory.

The Hall and Nernst - Ettinghausenelectromotive forces
and the distribution of carrier concentrations are
calculated for a mixed-conduction semiconductor in
a nonuniform magnetic field. Taken into account are
the presence of impurity levels and carrier
recombination. (Author)

(Physics--Solid State, IT, v. 8, no. 10)

62-14472

I. Title: Electromotive
forces

I. Bass, F. G.

II. Tsidi'l'kovskii, I. M.

Office of Technical Services

Nuclear Disintegrations Associated With Heavy
Unstable Particles, by I. M. Grameitakiy, E. A.
Zanchalova, M. I. Podgoretskiy, M. I. Tretyakova,
M. N. Schcherbakov, 4 pp.

RUSSIAN, bimo par, Zhur Eksp. i Teoret Fiz.
Vol XXVIII, 1955, pp 616, 617.

AEC Tr 2185

Scientific - Nuclear Physics
CTS 72/Sep 1955

26,561

Reaction (D,p) Pour Noyaux Lourds. ((d,p) Reaction
for Heavy Nuclei), by K. A. Ter-Martirosyan, 46 pp.

RUSSIAN to FRENCH, per, Zhur Ekaper i Teoret Fiz,
Vol XXIX, 1955, pp 713-729.

Reverse Trans
CEA tr R-155

Nov 59

Adiabatic Process at High Temperatures, by I. L. Aptekar', B. L. Timan, 2 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955, pp 758, 759.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43,828

AEC 6-4422

Table of Contents and Abstracts of "Zhur Eksper
i Teoret Fiz, Vol 27, No 1 (7), 1955, 1 p.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol 27,
No 1, (7), 1955.

CIA/FDDX-1389

Theory of the Molecular Attraction Forces Between
Solids, by E. M. Lifshits.

RUSSIAN, per, Zhur Eksptl 1 Teort Fiz, Vol XXIX,
No 1, 1955, pp 94-110.

UKSM GB 43

Sci -

Physics

52, 251

Sep 57

Academician Nikolai Nikolayevich Andreyev, 3 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 2, 1955, pp 137-139.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43,802

Tensors Which are Characterized by Two Real
Spinors, by G. A. Zaitsev, 7 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 2, 1955, pp 166-175.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43,811

On a Theory of the Electrical Conductivity of
Metals, by P. S. Zyrianov, 5 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 2, 1955, pp 193-200.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43, 812

Photoelectron Emission in a Ferromagnetic, by A. Z.
Veksler, 6 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 2, 1955, pp 201-208.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43,817

The Formation of Negative Oxygen Ions in the Collisions of Positive Oxygen Ions With Gas Molecules,
by Ya. M. Fogel', L. I. Krupnik, 10 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 2, 1955, pp 209-220.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43813

Sci Am Lit Tr 57/2/20

AS 2767

Phenomena in the Vicinity of Detonation Formation
in a Gas, by K. I. Shchelkin, 5 pp/

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 2, 1955, pp 221-226.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43,820

Zhur Eksper i Teoret Fiz, Vol XXVIII, 1955,
pp 252, 253, 2 pp abstract

CIA C 37820

AF 664607

Further Discussion on Fluctuations in Gravitating
Systems, by Ia. P. Terletakiy, 4 pp/

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 2, 1955, pp 237-241.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43, 816

On the Problem of Rotational Levels and the Spectra
of Heavy Nuclei. II, by S. G. Ryzhanov, 3 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 2, 1955, pp 247-249.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43, 832

Concerning Some General Relations of Quantum
Electrodynamics, by E. S. Fradkin, 3 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 2, 1955, pp 258-261.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43,843

On the Theory of Langmuir Probes, by Yu. M. Kagan,
V. I. Perel, 2 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 2, 1955, pp 261-263.

American Inst of Physics
Soviet Physics, Vol II, No 2,

Sci - Physics
Feb 57 CTS

43,825

112-1-19

Investigation of the Field of Partial Pressures
in a Diffusing Condensing Chamber, by V. K.
Liapidevskiy, 2 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz,
Vol XXIX, No 2, 1955, pp 263, 264.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43,835

Table of Contents of the Periodical
Zhur Eksper i Teoret Fiz, Vol XXIX, No 3(9), 1955.

Morris D. Friedman

ERA/FOO/X-1927

Delayed Neutrons From Photofission of Uranium and
Thorium, by L. E. Lazareva, B. S. Ratner, I. V.
St Shtranikh, 8 pp.

RUSSIAN, per, Zhur Eksper i Teor Fiz, Vol XXIX,
No 3, 1955, pp 274.

A.E.R.E. Harwell Lib Tr 651
Sci Mus Lib 56/1160

Sci - Nuclear physics

39492

Asymmetry of the Ranges of Fragments in the
Fission of Heavy Nuclei by Very Fast Particles,
by V. P. Shmev, O. V. Lozhkin, 9 pp.

RUSSIAN, bino per, Zhur Eksper i Teoret Fis,
Vol XXIX, No 3 (9), 1955, pp 286-291, ~~English~~

A.E.R.E. ~~with~~ Harwell Tr 653

Sci - Nuclear Physics
Sep 56 CTS

39, 301

Note on Subsequent Transitions in Meson-Atoms, by
M. I. Poligoretskiy, 2 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXIX,
No 3, 1955, pp 374, 375.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

44,221

On the Interaction of Extraordinary and Ordinary
Waves in the Ionosphere and the Effect of Multiple
Signal Reflection, by N. G. Denisov, 4 pp.

RUSSIAN, ~~EX~~ bimo per, Zh Eksp Teor Fiz, Vol XXIX,
No 3(9), 1955, pp 380-381.

Sci Mus Lib Tr 57/519

AECT-2752

~~XXXXXXXX~~

Morris D. Friedman

Don't pay
no. 11 no. 12

Jan 56 CBS/DEX

\$2.00

Scientific - Physics

30,277

Area Index of Phys

Table of Contents

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXIX,
No's, 4(10), 5(11), 6(12), 1955.

CIA/FDD/X-2053

Table of Contents

Zhur Eksperi Teoret Fiz, Vol XXIX, No 4-6

Morris D. Friedman

X-2328

International Values for the Thermal Cross Section
of Fissionable Isotopes, 1 p.

RUSSIAN, mo per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 4.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43,814

The Theory of Strong Coupling for Meson Fields I,
by B. T. Geilikman, 11 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz,
Vol XXIX, No 4, Oct 1955.

Amer Inst of Physics
Soviet Physics, Vol II, No 3

Sci - Physics
Feb 57 CTS

43,786

Investigation of the Isotope Effect in the
Uranium Spectrum, by A. R. Striganov, L. A.
Korostyleva, 13 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz,
Vol XXIX, No 4, 1955, pp 393-405.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CFS

43,818

The Theory of the Acceleration of Charged Particles
by Isotropic Gas Magnetic Turbulent Fields, by S. A.
Kaplan, 8 pp.

RUSSIAN, no per, Zhur Ekaper i Teoret Fiz, Vol
XXIX, No 4, 1955, pp 406-416.

American Inst of Physics
Soviet Physics ~~EXXX~~
Vol II, No 2

Sci - Physics
Feb 57 CTS

43,808
A2C 6 - 4401

The Velocity Distribution of Electrons in the
Presence of a Varying Electric Field and a
Constant Magnetic Field, by V. M. Fain.

RUSSIAN, per, ~~Zhur Eksper i Teoret Fiz~~, Vol XXVIII,
No 4, 1955, pp 422-430.

CCT-1312B

CCT-1312 TM

Sci - Electricity

Dec 59

102,995

Spartakov, A. A. and Tolstol, N. A.
THE STABLE DIPOLE MOMENT OF PARTICLES OF
AEROSOLS. [1961] 3p. 2 refs.
Order from OTS or SLA \$1.10

61-16441

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1955, v. 29, Sep, p. 385.

DESCRIPTORS: *Dipole moments, *Aerosols,
*Particles, Smokes, Polarization, Light transmission,
Tobacco, Test methods, Electrical properties,
Optics, Photoelectric effect.

Light passing through a thickness of 3 to 5 cm of tobacco smoke was modulated by a field of electric rectangular impulses. The curve of the modulation indicated periodic diminution of the transparency of the medium. The effect was observed with any direction of polarization of the light. Each change of sign
(Physics, TT, v. 7, no. 1) (over)

61-16441

I. Spartakov, A. A.
II. Tolstol, N. A.

Office of Technical Services

The Theory of the Hall Effect in Ionic Semiconductors,
by M. I. Klinger.

RUSSIAN, bino per, Zhur Ekspert i Teor Fiz, Vol
XXIX, 1955, pp 439-448.

American Inst of Physics
OT/1968

Sci - Electronics

43,442

The Double-Configurational Approximation in the Case
of Carbon-like Atoms, by A. B. Bolotin, I. B.
Levinson, L. I. Levin, 5 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz,
Vol XXIX, No 4, Oct 1955, pp 449-453.

Amer Inst of Physics
Soviet Physics, Vol II, No 3

Sci - Physics
Feb 57 CRS

43,768

The Theory of the Propagation of Gamma Rays
Through Matter, by V. I. Ogievetskiy, 8 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 4, 1955, pp 454-463.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43,823

Angular Distribution of Gamma Rays at Great Depths
of Penetration in Matter, by V. I. Ogievetskiy,
7 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol
XXIX, No 4, 1955, pp 464-472.

American Inst of Physics
Soviet Physics, Vol II, No 2,

43, 824

Sci - Physics
Feb 57 CTS

Loss of Two Electrons by Negative Ions in
Collisions With Atoms and Molecules, by
V. M. Dukel'skiy, N. V. Fedorenko, 5 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz,
Vol ~~XX~~ XXIX, No 4, 1955, pp 473-478.

American Inst of Physics
Soviet Physics, Vol II, No 2

Sci - Physics
Feb 57 CTS

43,822

Investigation of the Isotopic Constitution of
Lithium, by K. Ordzhonikidze, V. Shlutts, 6 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz,
Vol XXIX, No 4, Oct 1955, pp 479-485.

Sci Phys 706 527 1955
Amer Inst of Physics
Soviet Physics, Vol II, No 3

Sci - Physics
Feb 57 CTS

43,769

Sci Phys 706 527 1955

Sci Phys 706 527 1955

ST-4376

An Investigation of the Isotopic Constitution of
Boron, by V. Shutse.

RUSSIAN, bino per, Zhur Eksp. i Teor. Fiz., Vol
XXIX, 1955, pp 486-489.

American Inst. of Physics
OT/1968

Sci - Physics

43,444

The Behavior of Helium II in the Neighborhood of a
Heat Radiating Surface, by E. L. Andronikashvili,
G. G. Mirskaya, 4 pp.

RUSSIAN, MO Per, Zhur Eksper i Teoret Fiz,
Vol XXIX, No 4, Oct 1955, pp 490-494.

Amer Inst of Physics
Soviet Physics, Vol II, No 3

Sci - Physics
Feb 57 CTS

43,770